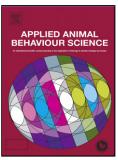
Accepted Manuscript

Title: What do maternal tests actually test?

Authors: C.G.E. Grimberg-Henrici, I. Czycholl, O. Burfeind, J. Krieter



PII:	S0168-1591(17)30030-8
DOI:	http://dx.doi.org/doi:10.1016/j.applanim.2017.01.010
Reference:	APPLAN 4397
To appear in:	APPLAN
Received date:	10-10-2016
Revised date:	17-1-2017
Accepted date:	22-1-2017

Please cite this article as: Grimberg-Henrici, C.G.E., Czycholl, I., Burfeind, O., Krieter, J., What do maternal tests actually test?.Applied Animal Behaviour Science http://dx.doi.org/10.1016/j.applanim.2017.01.010

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

What do maternal tests actually test?

C.G.E. Grimberg-Henrici^a, I. Czycholl^a, O. Burfeind^b, J. Krieter^a

^a Institute of Animal Breeding and Husbandry, Christian-Albrechts-University, Olshausenstr. 40, D-24098 Kiel, Germany

^b Chamber of Agriculture of Schleswig-Holstein, Gutshof 1, D-24327 Blekendorf, Germany

Corresponding author:

Charlotte G. E. Grimberg-Henrici Email: cgrimberg@tierzucht.uni-kiel.de Address: Institute of Animal Breeding and Husbandry, Christian-Albrechts-University, Olshausenstr. 40, D-24098 Kiel, Germany Phone: +49 (0)431 8804363 Fax: +49 (0)431 8802588

Highlights

- We investigated the maternal behaviour of 47 sows in week 2 and 4 of lactation in five successive tests in the home pen and in a test arena.
- Factor analysis extracted five factors by the Kaiser-Guttman criterion, explaining together 89.2 % of the total variance.
- The results revealed different underlying maternal factors: communication, contact, care and local attachment.
- Factor 1 explains for the largest part of variance and indicates the most important maternal factor, the reaction of sows to their piglets in threatening situations.

ABSTRACT

Several studies have used behavioural tests to characterise sows regarding their maternal performance. These studies have always chosen a selection of behavioural tests and the combination of tests varied between the studies. In the present study, 47 sows were tested in week 2 and 4 of lactation in five successive maternal tests, which were conducted in their home pens and in a test arena. The sows' reaction to piglet stress signals, separation from and reunion with their piglets were tested. The behavioural parameters observed in these maternal tests were examined by means of a factor analysis to identify redundancies in behavioural parameters. Five factors were extracted,

Download English Version:

https://daneshyari.com/en/article/5763298

Download Persian Version:

https://daneshyari.com/article/5763298

Daneshyari.com